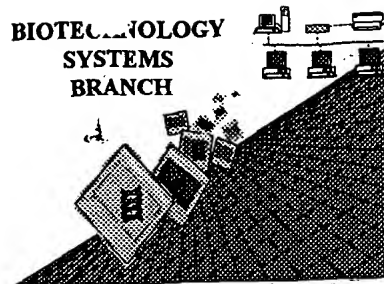


09/18
09/18

RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/942,588

Source: OIPE

Date Processed by STIC: 9/18/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001

TIME: 14:56:13

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I942588.raw

2 <110> APPLICANT: Canon INC.
W--> 3 <120> TITLE OF INVENTION: Screening method for gene variation
W--> 4 <130> FILE REFERENCE: CFO 15717
C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/942,588
C--> 5 <141> CURRENT FILING DATE: 2001-08-31
5 <150> PRIOR APPLICATION NUMBER: JP 2000-263396
W--> 6 <160> NUMBER OF SEQ ID: 67

Does Not Comply
Corrected Diskette Needed

pp 1-4

insert
the numeric identifier
report, since <150> is
down

ERRORED SEQUENCES

W--> 7 <210> SEQ ID NO: 1
8 <211> LENGTH: 18
9 <212> TYPE: DNA
10 <213> ORGANISM: Artificial sequence
W--> 11 <220> FEATURE:
12 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 13 <400> SEQUENCE: 1
E--> 14 gatgggactc aagttcat
15 <210> SEQ ID NO: 2
16 <211> LENGTH: 18
17 <212> TYPE: DNA
18 <213> ORGANISM: Artificial sequence
W--> 19 <220> FEATURE:
20 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 21 <400> SEQUENCE: 2
E--> 22 gatgggactc aggttcat
23 <210> SEQ ID NO: 3
24 <211> LENGTH: 18
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial sequence
W--> 27 <220> FEATURE:
28 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 29 <400> SEQUENCE: 3
E--> 30 gatgggactc acgttcat
31 <210> SEQ ID NO: 4
32 <211> LENGTH: 18
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial sequence
W--> 35 <220> FEATURE:
36 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 37 <400> SEQUENCE: 4
E--> 38 gatgggactc atgttcat
39 <210> SEQ ID NO: 5
40 <211> LENGTH: 18
41 <212> TYPE: DNA
42 <213> ORGANISM: Artificial sequence

18 ← insert cumulative base total
at right margin of each
line

same eval

same

same

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001

TIME: 14:56:13

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I942588.raw

W--> 43 <220> FEATURE:
 44 <223> OTHER INFORMATION: Sample oligonucleotide
 W--> 45 <400> SEQUENCE: 5
 E--> 46 gatgggactc gagttcat *same*
 47 <210> SEQ ID NO: 6
 48 <211> LENGTH: 18
 49 <212> TYPE: DNA
 50 <213> ORGANISM: Artificial sequence
 W--> 51 <220> FEATURE:
 52 <223> OTHER INFORMATION: Sample oligonucleotide
 W--> 53 <400> SEQUENCE: 6
 E--> 54 gatgggactcgggtcat *insert a space - group all non-coding bases into 10's, with a space*
 55 <210> SEQ ID NO: 7
 56 <211> LENGTH: 18
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Artificial sequence
 W--> 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: Sample oligonucleotide
 W--> 61 <400> SEQUENCE: 7
 E--> 62 gatgggactc gcgttcac *same*
 63 <210> SEQ ID NO: 8
 64 <211> LENGTH: 18
 65 <212> TYPE: DNA
 66 <213> ORGANISM: Artificial sequence
 W--> 67 <220> FEATURE:
 68 <223> OTHER INFORMATION: Sample oligonucleotide
 W--> 69 <400> SEQUENCE: 8
 E--> 70 gatgggactc gtgttcac *same*
 71 <210> SEQ ID NO: 9
 72 <211> LENGTH: 18
 73 <212> TYPE: DNA
 74 <213> ORGANISM: Artificial sequence
 W--> 75 <220> FEATURE:
 76 <223> OTHER INFORMATION: Sample oligonucleotide
 W--> 77 <400> SEQUENCE: 9
 E--> 78 gatgggactc cagttcat *same*
 79 <210> SEQ ID NO: 10
 80 <211> LENGTH: 18
 81 <212> TYPE: DNA
 82 <213> ORGANISM: Artificial sequence
 W--> 83 <220> FEATURE:
 84 <223> OTHER INFORMATION: Sample oligonucleotide
 W--> 85 <400> SEQUENCE: 10
 E--> 86 gatgggactc cggttcat *same*
 87 <210> SEQ ID NO: 11
 88 <211> LENGTH: 18
 89 <212> TYPE: DNA
 90 <213> ORGANISM: Artificial sequence
 W--> 91 <220> FEATURE:

*insert cumulative
base total at
right margin
between
groups*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001
TIME: 14:56:13

Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\09182001\I942588.raw

92 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 93 <400> SEQUENCE: 11
E--> 94 gatgggactc ccgttcat *same*
95 <210> SEQ ID NO: 12
96 <211> LENGTH: 18
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial sequence
W--> 99 <220> FEATURE:
100 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 101 <400> SEQUENCE: 12
E--> 102 gatgggactc ctgttcat *same*
103 <210> SEQ ID NO: 13
104 <211> LENGTH: 18
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial sequence
W--> 107 <220> FEATURE:
108 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 109 <400> SEQUENCE: 13
E--> 110 gatgggactc tagttcat *same*
111 <210> SEQ ID NO: 14
112 <211> LENGTH: 18
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial sequence
W--> 115 <220> FEATURE:
116 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 117 <400> SEQUENCE: 14
E--> 118 gatgggactc tggttcat *same*
119 <210> SEQ ID NO: 15
120 <211> LENGTH: 18
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial sequence
W--> 123 <220> FEATURE:
124 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 125 <400> SEQUENCE: 15
E--> 126 gatgggactc tcgttcat *same*
127 <210> SEQ ID NO: 16
128 <211> LENGTH: 18
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial sequence
W--> 131 <220> FEATURE:
132 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 133 <400> SEQUENCE: 16
E--> 134 gatgggactc ttgttcat *same*
135 <210> SEQ ID NO: 17
136 <211> LENGTH: 18
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial sequence
W--> 139 <220> FEATURE:
140 <223> OTHER INFORMATION: Sample oligonucleotide

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001

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Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I942588.raw

W--> 141 <400> SEQUENCE: 17
E--> 142 gatggggctc aagttcat *same*
143 <210> SEQ ID NO: 18
144 <211> LENGTH: 18
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial sequence
W--> 147 <220> FEATURE:
148 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 149 <400> SEQUENCE: 18
E--> 150 gatggggctc aggttcat *same*
151 <210> SEQ ID NO: 19
152 <211> LENGTH: 18
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial sequence
W--> 155 <220> FEATURE:
156 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 157 <400> SEQUENCE: 19
E--> 158 gatggggctc acgttcat *same*
159 <210> SEQ ID NO: 20
160 <211> LENGTH: 18
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial sequence
W--> 163 <220> FEATURE:
164 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 165 <400> SEQUENCE: 20
E--> 166 gatggggctc atgttcat *same*
167 <210> SEQ ID NO: 21
168 <211> LENGTH: 18
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial sequence
W--> 171 <220> FEATURE:
172 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 173 <400> SEQUENCE: 21
E--> 174 gatggggctc gagttcat *same*

↓
The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001

TIME: 14:56:14

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I942588.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier
L:4 M:283 W: Missing Blank Line separator, <130> field identifier
L:5 M:270 C: Current Application Number differs, Replaced Current Application No
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:6 M:283 W: Missing Blank Line separator, <160> field identifier
L:7 M:283 W: Missing Blank Line separator, <210> field identifier
L:11 M:283 W: Missing Blank Line separator, <220> field identifier
L:13 M:283 W: Missing Blank Line separator, <400> field identifier
L:14 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:1
L:19 M:283 W: Missing Blank Line separator, <220> field identifier
L:21 M:283 W: Missing Blank Line separator, <400> field identifier
L:22 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:2
L:27 M:283 W: Missing Blank Line separator, <220> field identifier
L:29 M:283 W: Missing Blank Line separator, <400> field identifier
L:30 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:3
L:35 M:283 W: Missing Blank Line separator, <220> field identifier
L:37 M:283 W: Missing Blank Line separator, <400> field identifier
L:38 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:4
L:43 M:283 W: Missing Blank Line separator, <220> field identifier
L:45 M:283 W: Missing Blank Line separator, <400> field identifier
L:46 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:5
L:51 M:283 W: Missing Blank Line separator, <220> field identifier
L:53 M:283 W: Missing Blank Line separator, <400> field identifier
L:54 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:17 SEQ:6
L:54 M:252 E: No. of Seq. differs, <211>LENGTH:Input:18 Found:17 SEQ:6
L:59 M:283 W: Missing Blank Line separator, <220> field identifier
L:61 M:283 W: Missing Blank Line separator, <400> field identifier
L:62 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:7
L:67 M:283 W: Missing Blank Line separator, <220> field identifier
L:69 M:283 W: Missing Blank Line separator, <400> field identifier
L:70 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:8
L:75 M:283 W: Missing Blank Line separator, <220> field identifier
L:77 M:283 W: Missing Blank Line separator, <400> field identifier
L:78 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:9
L:83 M:283 W: Missing Blank Line separator, <220> field identifier
L:85 M:283 W: Missing Blank Line separator, <400> field identifier
L:86 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:10
L:91 M:283 W: Missing Blank Line separator, <220> field identifier
L:93 M:283 W: Missing Blank Line separator, <400> field identifier
L:94 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:11
L:99 M:283 W: Missing Blank Line separator, <220> field identifier
L:101 M:283 W: Missing Blank Line separator, <400> field identifier
L:102 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:12
L:107 M:283 W: Missing Blank Line separator, <220> field identifier
L:109 M:283 W: Missing Blank Line separator, <400> field identifier
L:110 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:13
L:115 M:283 W: Missing Blank Line separator, <220> field identifier
L:117 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

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Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I942588.raw

L:118 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:14
L:123 M:283 W: Missing Blank Line separator, <220> field identifier
L:125 M:283 W: Missing Blank Line separator, <400> field identifier
L:126 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:15
L:131 M:283 W: Missing Blank Line separator, <220> field identifier
L:133 M:283 W: Missing Blank Line separator, <400> field identifier
L:134 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:16
L:139 M:283 W: Missing Blank Line separator, <220> field identifier
L:141 M:283 W: Missing Blank Line separator, <400> field identifier
L:142 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:17
L:147 M:283 W: Missing Blank Line separator, <220> field identifier
L:149 M:283 W: Missing Blank Line separator, <400> field identifier
L:150 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:18
L:155 M:283 W: Missing Blank Line separator, <220> field identifier
L:157 M:283 W: Missing Blank Line separator, <400> field identifier
L:158 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:19
L:163 M:283 W: Missing Blank Line separator, <220> field identifier
L:165 M:283 W: Missing Blank Line separator, <400> field identifier
L:166 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:20
L:171 M:283 W: Missing Blank Line separator, <220> field identifier
L:173 M:283 W: Missing Blank Line separator, <400> field identifier
L:174 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:21
L:179 M:283 W: Missing Blank Line separator, <220> field identifier
L:181 M:283 W: Missing Blank Line separator, <400> field identifier
L:182 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:22
L:187 M:283 W: Missing Blank Line separator, <220> field identifier
L:189 M:283 W: Missing Blank Line separator, <400> field identifier
L:190 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:23
L:198 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:24
L:206 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:25
L:214 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:26
L:222 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:27
L:230 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:28
L:238 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:29
L:246 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:30
L:254 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:31
L:262 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:32
L:270 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:33
L:278 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:34
L:286 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:35
L:294 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:36
L:302 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:37
L:310 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:38
L:318 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:39
L:326 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:40
L:334 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:41
L:342 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:42
L:350 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:43
L:358 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:44

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/942,588

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Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\09182001\I942588.raw

L:366 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:45
L:374 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:46
L:382 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:47
L:390 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:48
L:398 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:49
L:406 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:50